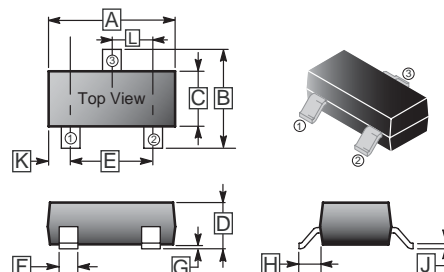


RoHS Compliant Product
A suffix of "-C" specifies halogen and lead free

FEATURES

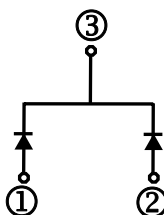
- High reliability
- Suitable for high packing density layout
- Fast reverse recovery time : $t_{rr} = 1.5\text{ns}$ (typ.)

SOT-23



PACKAGING INFORMATION

Weight: 0.0078 g (Approx.)



MARKING CODE

N

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.80	3.04	G	0.09	0.18
B	2.10	2.55	H	0.45	0.60
C	1.20	1.40	J	0.08	0.177
D	0.89	1.15	K	0.6 REF.	
E	1.80	2.00	L	0.89	1.02
F	0.30	0.50			

ABSOLUTE MAXIMUM RATINGS (at $T_a = 25^\circ\text{C}$ unless otherwise specified)

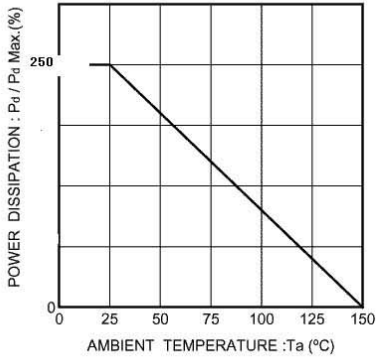
Parameter	Symbol	Ratings	Unit
Peak Reverse Voltage	V_{RM}	80	V
DC Reverse Voltage	V_R	80	V
Maximum (Peak) Forward Current	I_{FM}	300	mA
Average Forward Current	I_O	100	mA
Power Dissipation	P_D	250	mW
Junction, Storage Temperature	T_J, T_{STG}	+150, -55 ~ +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (at $T_a = 25^\circ\text{C}$ unless otherwise specified)

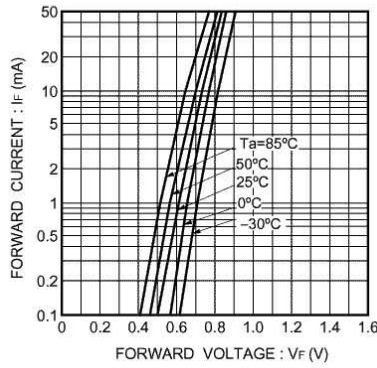
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	$V_{(BR)}$	80	-	-	V	$I_R = 100 \mu\text{A}$
Forward Voltage	V_F	-	-	1.2	V	$I_F = 100 \text{mA}$
Reverse Voltage Leakage Current	I_R	-	-	0.1	μA	$V_R = 70\text{V}$
Diode Capacitance	C_D	-	-	3.5	pF	$V_R = 6 \text{V}, f = 1 \text{MHz}$
Reverse Recovery Time	t_{rr}	-	-	4.0	ns	$V_R = 6 \text{V}, I_F = 5 \text{mA}$

CHARACTERISTIC CURVES

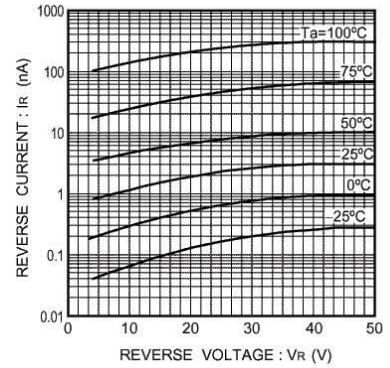
SCS202NK



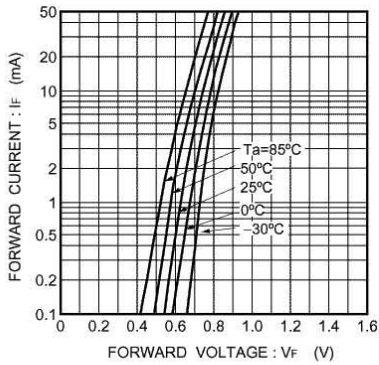
Power attenuation curve



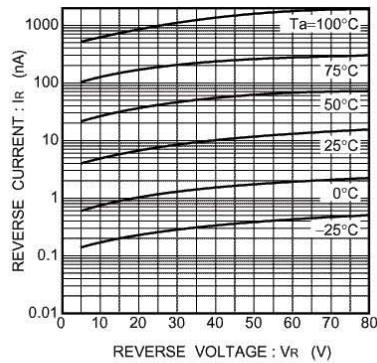
Forward characteristics (P Type)



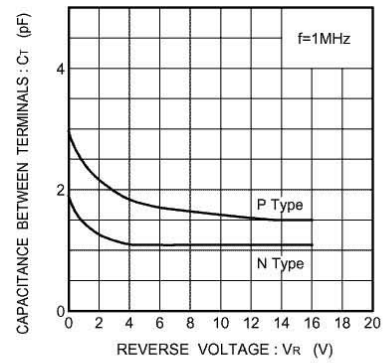
Reverse characteristics (P Type)



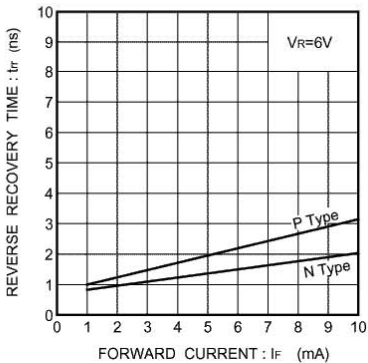
Forward characteristics (N Type)



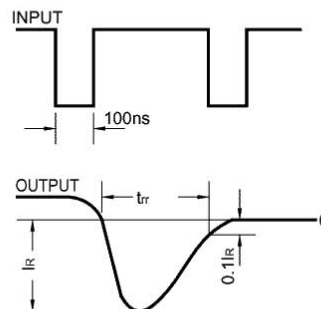
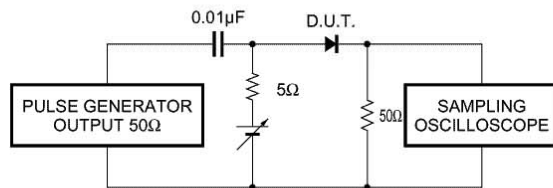
Reverse characteristics (N Type)



Capacitance between terminals characteristics



Reverse recovery time



Reverse recovery time (t_{rr}) measurement circuit